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(71)Applicant : **DOWA MINING CO LTD**

(72)Inventor : **HATAKEYAMA KOICHI**
KANZAKI TOSHIHIRO
ENDO HIDEKI
SUGAWARA AKIRA

(54) COPPER-BASE ALLOY AND ITS CASTING PROCESS

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a copper-base alloy perfectly free from the occurrence of defects such as surface cracks and blowholes of an ingot, excellent in bendability required for elongation material and reliability of plating, capable of producing an ingot with high efficiency by continuous casting, having high quality required for copper-base alloy elongation material, and capable of contributing to cost reduction, and also to provide a method for casting this copper- base alloy.
SOLUTION: This alloy is a copper-base alloy which has a composition containing, by weight, 0.01-3% iron or further containing 0.01-5%, in total, of one or 2 elements selected from phosphorus, nickel, cobalt, tin, zinc, magnesium, zirconium, chromium, silicon, titanium, manganese, aluminum, and silver, and the balance essentially copper. At the time of continuously casting and cooling a molten metal composed of this copper-base alloy, the surface temp. of an ingot right under a mold is controlled to 780-920°C, and also the surface temp. of the ingot right under the cooling zone where the ingot discharged from the mold is continuously cooled is controlled to 700-750°C.

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